



U.S. Department
of Transportation

Pipeline and
Hazardous Materials
Safety Administration

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0639/S-96, REVISION 3

East Building, PHH-23
1200 New Jersey Avenue SE
Washington, D.C. 20590

This certifies that the sources described have been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency¹ and the United States of America² for the transport of radioactive material.

1. Source Identification - QSA Global, Inc. Models X.1191 and X.1191/1 (Both models manufactured on or after July 23, 1987).
2. Source Description - Cylindrical single encapsulations made of Type 316L stainless steel (Model X.1191) or 17-PH stainless steel (Model X.1191/1) and tungsten inert gas or laser seal welded. Approximate exterior dimensions are 4.3 mm (0.17 in.) in diameter and 22.4 mm (0.88 in.) in length. Minimum wall thickness is 0.8 mm (0.03 in.). Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing No. RBA61886, Rev. C.
3. Radioactive Contents - No more than 12.0 GBq (324.0 mCi) of Californium-252. The Cf-252 is in the form of metal in californium/palladium alloy and californium/platinum/iridium alloy wire and pellets or as an oxide in a ceramic.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations¹ shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors in the United States exporting shipments under this certificate shall satisfy the applicable requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires on April 30, 2013.

¹ "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency(IAEA), Vienna, Austria.

² Title 49, Code of Federal Regulations, Parts 100-199, United States of America.


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This certificate is issued in accordance with paragraph 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the April 03, 2008 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:



Apr 21 2008

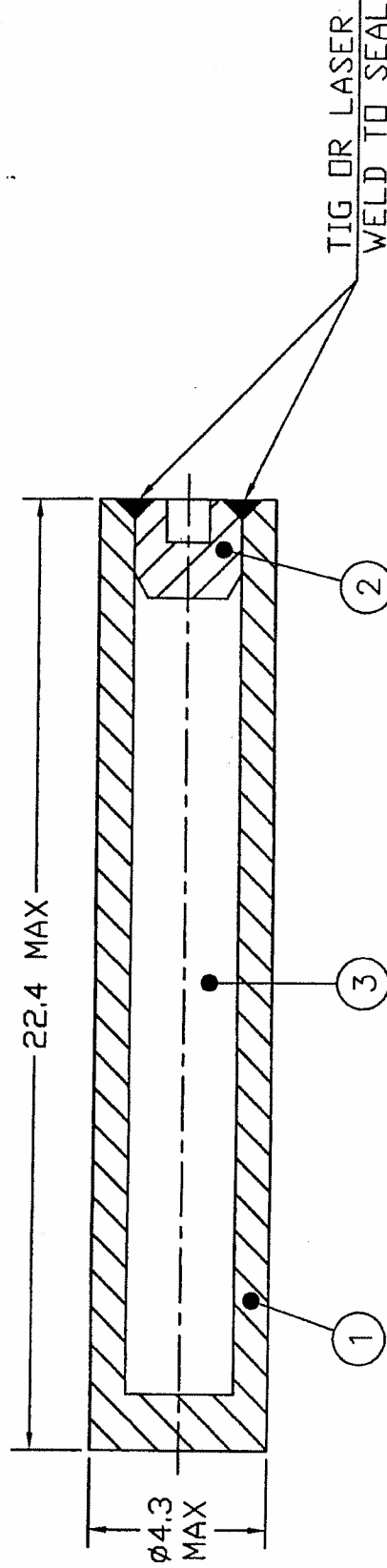
 Robert A. Richard


(DATE)

Deputy Associate Administrator for Hazardous Materials Safety

Revision 3 - Issued to extend the expiration date and update corporate name.

Item #	Description	Qty.
1	CELL BODY STAIN.STL.	1
2	CELL LID STAIN.STL.	1
3	ACTIVE MATERIAL	AR



 40 NORTH AVE. BURLINGTON, MA 01803		DESCRIPTIVE DRAWING	
TITLE X1191 & X1191/1 CAPSULE ASSY			
SIZE A		DWG. NO. RBA61886	
SCALE: NONE		SHEET 1 OF 1	
APPROVALS <i>R. J. Munn</i> 21 Feb 05 <i>J. P. Chiles</i> 21 Feb 05		DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE STATED TOLERANCES: X ±0.5 XX ±0.1 XXX ±0.05 ANGULAR ±5° INTERNAL <input checked="" type="checkbox"/> EXTERNAL <input checked="" type="checkbox"/>	
ERF # 1001		REV C	



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CERTIFICATE NUMBER: USA/0639/S-96, Revision 3

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